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FLIGHT
Topic Hotlist

Introduction: This is collection of Internet sites for teachers and students researching the history of aviation and the important contribution of Orville and Wilbur Wright to powered flight.

U. S. Centennial of Flight Commission
http://centennialofflight.gov

Centennial of Flight: Rediscovering the Challenges of Flight
http://quest.nasa.gov/projects/aero/centennial/

Educator Resources
http://quest.nasa.gov/projects/aero/centennial/ed.html#wright
http://quest.nasa.gov/projects/aero/centennial/wrightflyer.html (teacher)
http://quest.nasa.gov/projects/aero/centennial/problem.html
http://quest.nasa.gov/aero/planetary/atmospheric/forces.html

Evolution of Flight
http://www.flight100.org/index.cfm

How Things Fly
http://www.nasm.si.edu/galleries/gal109/NEWHTF/HTF030.HTM

American Experience: Way Back Flight
http://www.pbs.org/wgbh/amex/kids/flight

Flights of Inspiration
http://www.fi.edu/flights/

First Flight
http://firstflight.open.ac.uk/

Wright Flyer Online
http://quest.arc.nasa.gov/aero/wright/

AIAA Wright Flyer Project
http://www.wrightflyer.org

Wright Brothers Airplane Company
http://www.wright-brothers.org

The Wright Flyer: Practice Makes Perfect

http://www.nasaexplores.com/lessons/01-081/k-4_index.html (teacher/student)

The Four Forces of Flight
http://www.nasaexplores.com/lessons/01-083/k-4_index.html

How Things Fly
http://www.aero.hq.nasa.gov/edu/4forces.html

Aviation for Little Folks
http://spacelink.nasa.gov/Instructional.Materials/On-line.Educational.Activities/Aviation/index.html

Fly Like the Birds
http://www.nasaexplores.com/lessons/01-071/k-4_index.html (teacher/student)

The Inflatable Wing
http://NASAexplores.com/lessons/02-013/k-4_index.html (teacher/student)

Wings That Bend and Stretch
http://NASAexplores.com/lessons/02-019/K-4_index.html (teacher/student)

Leonardo DaVinci
http://www.mos.org/sln/Leonardo/LeoHomePage.html

Modern Past—Tomb In Egypt
http://www.enigmas.org/aef/lib/archeo/nf-airp.shtml

Note to Educator/Parents: A Topic Hotlist is an organized list of web resources centered on a theme or topic. This collection of Internet sites has information regarding the history of aviation and the important contribution of the Wright brothers to the first powered flight. It is designed for teachers who will use the resources to design and develop a unit of study celebrating the hundred years of powered flight. Kindergarten through second grade will require help, as accessibility of the sites will not be appropriate for the developmental level of the learner. Students will build a replica of the Wright Brothers' plane, create a timeline of the technological advancements of flight, and research important people and events to discover how the world has changed since the Wright brothers first flight. The learners in grades three to five should work cooperatively in groups to research topics of the history of aviation technology, the Wright brothers, the aircraft design process, features of an aircraft, and the basic forces of flight. Using a variety of technology applications students will create multimedia representations (e.g. Hyperstudio, PowerPoint, Web page) depicting the Wright Brothers' first flight and the advancement of flight over the past 100 years. Teachers will need to create templates for younger children and select appropriate materials in order to adapt activities to the learning ability of the students.

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Curriculum Standards: This Topic Hotlist partially fulfills the following national standards from the National Science Education Standards, *National Science Teachers Association (NSTA)*, and the National Educational Technology Standards, *International Society for Technology in Education* (ISTE NETS).

Science Content Standards, Grades K – 4

B. Physical Science

- Properties of objects and materials
- Position of motion of objects

E. Science and Technology

- Abilities of technological design
- Understanding about science and technology

G. History and Nature of Science

- Science as a human endeavor

Technology Foundation Standards for Students

3. Technology productivity tools

Students use technology tools to enhance learning, increase productivity and promote creativity.

Students use productivity tools to collaborate in constructing technology-enhanced models, prepare publications and produce other creative works.

5. Technology research tools

Students use technology to locate, evaluate and collect information from a variety of sources.